said A element, and forming a catalyst from the precipitate as a source material for said catalyst.

B1 Cont

2. (Amended) A process for producing a catalyst according to Claim 1, wherein the amount of an ammonium root in the mixture before adjustment to pH 6.5 or less is 0.5 mole or more relative to mole of the A element.

B2

4. (Amended) A process for producing a catalyst according to claim 1, wherein the precipitate is heat-treated at 200 to 700°C and then used as said source material.

B3

6. (Amended) A process for producing a catalyst according to Claim 5, wherein the amount of an ammonium root in the mixture before adjustment to pH 6.5 or less is 0.5 mole or more relative to mole of the A element.

B4

8. (Amended) A process for producing a catalyst according to Claim 1, wherein the produced catalyst is a catalyst for production of methacrylic acid by gas phase catalytic oxidation of methacrolein, having a composition represented by the following formula (1):

$$A_aMo_bV_cCu_dD_eX_fY_gZ_hO_i \qquad (1)$$

(wherein Mo, V, Cu and O are molybdenum, vanadium, copper and oxygen, respectively; A is at least one element selected from the group consisting of phosphorus and arsenic; D is at least one element selected from the group consisting of antimony, bismuth, germanium, zirconium, tellurium, silver, selenium, silicon, tungsten and boron; X is at least one element selected from the group consisting of potassium, rubidium and cesium; Y is at least one element selected from the group consisting of iron, zinc, chromium, magnesium, tantalum, manganese, cobalt, barium, gallium, cerium and lanthanum; Z is sodium and/or thallium; a, b, c, d, e, f, g, h and i are each the atomic ratio of each element; when b is 12, a=0.5 to 3, c=0.01